

# State of Louisiana Wellhead Protection Program

Louisiana Department of Environmental Quality

Office of Environmental Assessment



## WELLHEAD PROTECTION STAFF GOES TO PRISON!

The State of Louisiana Wellhead Protection Program (WHPP) staff recently implemented a WHPP at the Louisiana State Penitentiary in Angola, Louisiana.

The facility houses over 5,100 inmates with security provided by 1,500 correctional officers. Angola consists of several self-contained "camps" or mini-prisons surrounded by 18,000 acres (28 square miles) of prison property devoted to farming. The prison is surrounded on three sides by the Mississippi River. The fourth side is bordered by the rugged Tunica Hills.

The adjacent photo is printed with the permission of the Louisiana State Penitentiary Museum, which is located just outside the gates of the prison. The museum is impressive, sharing the history of the prison and exhibiting items such as "Old Sparky," the retired electric chair, and a wall of confiscated weapons. The museum, together with the already famous "Angola Prison Rodeo," is making the prison a major tourist attraction.



WHPP staff members Jennifer Summers and Don Haydel pose for a picture while implementing a WHPP at Louisiana State Penitentiary.

Special permission had to be obtained to operate the GPS mapping equipment and digital camera on the prison grounds. The Wellhead Protection Program staff would like to acknowledge the assistance of D. E. "Bud" Honeycutt, Billy Jones, and Steve Bourgeois for their assistance in implementing the Wellhead Program.

### Inside this issue:

LDEQ Source Water Assessment Program	2
WHPP Celebrates Its Tenth Anniversary!	2
Approved Wellhead Protection Programs as of 2001	3
Got News? Ideas?	4
Wellhead Protection Area Management Options	4
Historical Facts	4

## HOW MUCH WATER DO YOU USE IN A DAY?

Water quantity issues have become a hot topic in Louisiana over the past couple of months. Did you know that the average person uses approximately 160 gallons of water per day? Here are some interesting facts about water usage:

<u>Water Use</u>	<u>Amount Used</u>
Flushing Toilets	3-5 gallons/flush
Shower	5 gallons/minute
Bath	35-40 gallons
Dishes	10-15 gallons
Laundry	19-45 gallons
Brushing Teeth	2 gallons

This list includes things done on a daily basis, year-round. What about the things we do perhaps every other day like watering the lawn during the summer, or washing our car once a week? Washing your car expends between twenty and thirty gallons of water whereas keeping your grass green will cost you about 250 gallons of water per half-hour!

Carelessness can also play a major role in water consumption. Remember that leaky faucet that you meant to fix last week? That seemingly innocent little drip can waste up to 100 gallons of water per day!

*\*Source: United States Environmental Protection Agency*

## LDEQ SOURCE WATER ASSESSMENT PROGRAM



### **FACT:**

*Did you know that  
one gallon of  
gasoline can  
contaminate  
approximately  
750,000 gallons of  
water?*

The Louisiana Department of Environmental Quality (LDEQ) has contracted with C-K Associates to conduct a source water assessment for your water supply. As you may know, each state is **required by the Safe Drinking Water Act Amendments of 1996** to perform source water assessments on all public drinking water systems in the state. LDEQ is implementing the Source Water Assessment Program in the State of Louisiana. Once completed, the source water assessment results can be used to assist local communities in implementing protection measures such as contingency planning, implementation of best management practices, adoption of local ordinances, and public education. Assessment followed by protection efforts already exists in Louisiana in the Wellhead Protection Program. Although your system already has a wellhead protection program in place, C-K Associates will conduct a source water assessment in

order to update older inventories and generate a susceptibility analysis for your system.

This Source Water Assessment, when received, will also serve as the most current update of your Wellhead Protection Program. However, it does not update your contingency plan. That is the responsibility of each individual water system. An annual review and update of the source inventory and contingency plan will ensure that the WHPP grows with the community. Therefore, the contingency plan should be reviewed and updated to reflect any changes in your system or personnel contact list. Your contingency plan was developed as an emergency response plan for use when time is of the essence. To be effective, the information must be current, or it will NOT save you any time!

## WHPP CELEBRATES ITS TENTH ANNIVERSARY!

The Wellhead Protection Program (WHPP), funded by the U.S. Environmental Protection Agency, is aimed at pollution prevention. It seeks to prevent the contamination of underground water supplies rather than have municipalities face costly clean up efforts and health risks associated with contamination. The program focuses on education of the citizenry, recognizing that an informed public is a more responsible public.

taken innovative approaches to address specific problems and public education.

The intent of this newsletter is to provide each community participating in the WHPP with an update of WHPP activities taking place in Louisiana. It is our hope that by sharing these ideas, communities throughout the state can benefit from each other's ideas.



Jennifer Summers of DEQ's Wellhead Protection staff, describes the Wellhead Protection Program to Don Hogan, the Superintendent of Water and Wastewater Departments for the City of West Monroe during the initial Wellhead Protection Program presentation.

Over the last ten years, more than 163 communities in the state have implemented Wellhead Protection Programs. While all WHPPs must meet a minimum set of requirements to obtain state approval, each program is unique to the community for which it was developed. As a result, many communities have

During fiscal year 2002, the Wellhead Protection staff will approach the City of Baton Rouge. Comprised of Baton Rouge Water Company and Parish Water Company, the capital city is home to over eighty wells, which will make it the largest Wellhead Protection Program to date!

## APPROVED WELLHEAD PROTECTION PROGRAMS AS OF 2001

City of Abbeville  
 City of Alexandria  
 Town of Arnaudville  
 Atlanta Water System  
 Avoyelles Waterworks District #1  
 Avoyelles Ward 3 Waterworks Dist.  
 City of Baker  
 City of Bastrop (Peoples Water Service)  
 Bayou Bonne Idee Water System, Inc.  
 Bayou Des Cannes Water System  
 Beauregard Waterworks Dist. #2  
 Belmont Water System  
 Town of Bernice  
 City of Breaux Bridge  
 Town of Broussard  
 Buckeye Water District #50  
 City of Bunkie  
 Cadeville Water District  
 Calcasieu Parish W.D. #1 (Moss Bluff)  
 Calcasieu Parish W.D. #2 (Mossville)  
 Calcasieu Parish W.D. #4  
 Calcasieu Parish W.D. #5  
 Calcasieu Parish W.D. #7  
 Calcasieu Parish W.D. #9 (Carlyss)  
 Cameron Waterworks #2  
 Cameron Waterworks #11  
 Town of Campiti  
 Town of Cheneyville  
 Town of Church Point  
 Village of Clarks  
 Town of Colfax  
 Town of Columbia  
 Columbia Heights Water District  
 Town of Cottonport  
 Town of Coushatta  
 Couteau Water System  
 Creston Water System  
 Town of Delcambre  
 Town of Delhi  
 Village of Delta  
 City of DeQuincy  
 City of DeRidder  
 Village of Dry Prong  
 Town of Duson  
 East Columbia Water District  
 Village of Epps  
 City of Eunice (LAWCO)  
 Town of Forest Hill  
 Fort Polk (U.S. Army)  
 Village of Gilbert  
 Village of Goldonna  
 Town of Grand Couteau  
 Village of Grayson  
 Greenwood Water System  
 City of Hammond  
 Town of Haughton  
 Hayes Water System

Hebert Water System  
 Village of Hessmer  
 Town of Iowa  
 City of Jeanerette  
 Jeff Davis Central  
 Town of Jena  
 City of Jennings  
 Town of Jonesboro  
 Kolin-Ruby Wise W.D. 11A  
 City of Lafayette  
 Town of Lake Arthur  
 City of Lake Charles  
 LaSalle Waterworks Dist. #1  
 City of Leesville  
 Lawtell  
 Leland Water System  
 Lena Water System  
 Town of Leonville  
 Liddieville Water System  
 Town of Mamou  
 Town of Mangham  
 City of Mansfield  
 Town of Marksville  
 Village of Maurice  
 Village of Mer Rouge  
 Village of Mermentau  
 Milton Water System  
 City of Minden  
 Mire Branch Water Corp.  
 Town of Montgomery  
 Monticello Water System  
 Town of Moreauville  
 Morehouse Consolidated W.D. #2  
 Morrow Water System  
 N-E-W Carroll Water Dist.  
 City of New Iberia (LAWCO)  
 North Crowley Water Corp.  
 North Franklin Water System  
 North Hodge  
 City of Opelousas  
 Village of Palmetto  
 Pine Hill Water System  
 City of Pineville  
 Pioneer-Darnell Water System  
 Town of Plaquemine  
 Town of Pollock  
 Pollock Area Water System  
 Village of Powhatan  
 Prairie Ronde Water System  
 Rapides Parish Waterworks Dist. #3  
 City of Rayne  
 Town of Rayville  
 Red Chute Utilities  
 Red Oak Water Co., Inc.  
 Robeline-Marthaville Water System  
 Rural Franklinton Water Corp.  
 Sandy Lake Water System

Savoy-Swords Water System  
 Town of St. Francisville  
 Town of St. Joseph  
 St. Landry Consolidated #2  
 Town of Sibley  
 Village of Sicily Island  
 Town of Simmesport  
 South Bonne Idee Water System  
 South DeSoto Water System  
 South Grant Water System  
 South Oakdale Water System  
 S.E. Hodge Water System  
 Southwest Ouachita Waterworks, Inc.  
 Southwest Allen Parish W.D. #2  
 City of Sulphur  
 City of Tallulah (Peoples Water Serv.)  
 Tangipahoa Parish Water System  
 Union Springs Water System  
 United Water System  
 Town of Urania  
 Village Water System  
 Town of Vinton  
 Walnut Bayou Water Association  
 Ward Four Water District  
 Town of Waterproof  
 West Allen Parish Water District  
 City of Westlake  
 Weston Water System  
 Town of White Castle  
 West Grant Water Association  
 West Winnsboro Water System  
 Town of Winnsboro  
 Town of Wisner  
 City of Zachary  
 Zone Two Water System

### CONGRATULATIONS TO THIS YEAR'S APPROVED WHPPs!

Bayou Liberty Water Association  
 City of Bogalusa  
 City of Crowley  
 City of Denham Springs  
 East Feliciana Rural Water Association  
 Town of Farmerville  
 Louisiana State Penitentiary  
 Louisiana Tech University  
 Mamou Road Water System, Inc.  
 Mandeville Water Supply  
 City of Plaquemine  
 City of Ruston  
 Ward II Water District  
 Winnfield

## WELLHEAD PROTECTION AREA MANAGEMENT OPTIONS

- Zone to prohibit certain activities in a Wellhead Protection Area (WHPA.)
- Require all facilities located within the WHPA to be connected to the sanitary and storm sewer collection systems.
- Prohibit new underground storage tanks, landfills, or other activities known to impact ground water.
- Conduct a household hazardous waste collection day and ensure proper disposal of materials collected.
- Monitor ground water quality near major sources of contamination.
- Identify and plug all abandoned and inactive wells.
- Purchase the land in your WHPA for maximum control of activities.
- Install and maintain highway signs on the boundaries of your WHPA and employ other public education tools.

### HISTORICAL FACTS:



Historically, water was considered clean if it was clear. Hippocrates, the Father of Medicine, invented the "Hippocrates Sleeve", a cloth bag to strain rainwater, in the 5th century B.C.

In 1746, Parisian scientist Joseph Amy was granted the first patent for a filter design, and by 1750 his filters for home use could be purchased. The filters consisted of sponge, charcoal and wool.

*\*Source: American Water Works Association*



### GOT NEWS? IDEAS?

If you have any news or ideas that you would like to share with other communities in next year's issue of the newsletter, please submit them to Don Haydel or Jennifer Summers at the following address:

Louisiana Department of Environmental Quality  
Office of Environmental Assessment  
Post Office Box 82178  
Baton Rouge, LA 70884-2178

VISIT US ON THE WEB AT:

[www.deq.state.la.us/evaluation/aeps/lwhp.htm](http://www.deq.state.la.us/evaluation/aeps/lwhp.htm)

Louisiana Department of Environmental Quality  
Office of Environmental Assessment  
Post Office Box 82178  
Baton Rouge, LA 70884-2178

ADDRESS CORRECTION REQUESTED

BULK RATE  
US POSTAGE  
PAID  
BATON ROUGE,  
LA  
PERMIT NO. 644

Subscriber Name  
Number Street Address  
City, State Postal Code  
Country

### Printed on Recycled Paper

This public document was printed at a total cost of \$128.00. A total of 200 copies was included in this first printing at a cost of \$128.00. This document was published by the Louisiana Department of Environmental Quality, P.O. Box 82178, Baton Rouge, Louisiana 70884-2178 to provide the public with environmental information in accordance with La. R.S. 30:2011 using standards for printing by state agencies established pursuant to La. R.S. 43:31.